Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1.   (Original) A portable voice over Internet Protocol (VoIP) test device for testing a VoIP network, comprising:

a user interface;

a transceiver configured to communicate with the VoIP network;

a memory storing a test algorithm; and

a processor in communication with said user interface, said transceiver, and said memory and configured to execute said test algorithm to cause said transceiver to communicate with the VoIP network to test the VoIP network.

2.   (Currently amended) The VoIP test device of claim 1, further comprising a digital signal processor in communication with said processor.

3.   (Original) The VoIP test device of claim 2, wherein said digital signal processor comprises at least one coder/decoder.

4.   (Original) The VoIP test device of claim 3, wherein said coder/decoder uses at least one of the following compression protocols: G.711a-law, G711μ-law, G.720, G.723.1, G.726, G.728, G.729, G.729A, and G.729AB2.

5.   (Original) The VoIP test device of claim 1, wherein said transceiver comprises a power line modem for communication with a power line communication network.

6.   (Currently amended) The VoIP test device of claim 1, wherein the said transceiver comprises an Ethernet transceiver.

7.   (Original) The VoIP test device of claim 1, wherein said transceiver comprises a cable modem.

8.   (Original) The VoIP test device of claim 1, wherein said user interface device comprises an audio input device and an audio output device.

9.   (Original) The VoIP test device of claim 1, wherein said transceiver comprises a digital subscriber line (DSL) modem.

10.   (Original) The VoIP test device of claim 1, wherein said user interface comprises a manual input device and a display.

11.   (Original) The VoIP test device of claim 1, further comprising a media access controller.

12.   (Original) The VoIP test device of claim 10, further comprising a dual tone multi-frequency encoder in communication with said manual input device.

13.   (Currently amended) The VoIP test device of claim 1, further comprising a communication interface port in communication with said processor.

14.   (Currently amended) The VoIP test device of claim 13, wherein said communication network interface port comprises a RJ-11 connector.

15.   (Original) The VoIP test device of claim 13, wherein said communication interface port comprises a tip/ring interface.

16.   (Original) The VoIP test device of claim 1, further comprising a Power over Ethernet module.

17.   (Original) The VoIP test device of claim 5, further comprising a media access controller.

18.   (Original) The VoIP test device of claim 1, wherein the digital signal processor uses at least one of the following data compression techniques: G.711a-law, G711µ-law, G.720, G.723.1, G.726, G.728, G.729, G.729A, and G.729AB2.

19.   (Original) The VoIP test device of claim 5, wherein the device receives power from a power line communication network.

20.   (Original) The VoIP test device of claim 1, further comprising a network status indicator.

21.   (Original) The VoIP test device of claim 20, wherein said network status indicator provides a mean opinion score (MOS) output.

22.   (Original) The VoIP test device of claim 1, wherein the device includes a handset and a base and said processor is disposed in said handset.

23.   (Original) The VoIP test device of claim 1, wherein said processor is programmed to test the VoIP network based on at least one of the following: E-Model, Perceptual Analysis Measurement System, Perceptual Evaluation of Speech Quality, Perceptual Speech Quality Measurement (PSQM), and PSQM+.

24.   (Original) The VoIP test device of claim 1, wherein said memory includes an Internet Protocol (IP) address stored therein.

25.   (Currently amended) The VoIP test device of claim 1, wherein said memory includes an algorithm for requesting an IP address stored therein.

26.   (Original) The VoIP test device of claim 1, wherein said memory includes a MAC address stored therein.

27.   Canceled.

28.   (Original) A method of using a portable test device to test a VoIP network, comprising:

transmitting test signals over the VoIP network;

receiving response signals in response to transmitting said test signals;

processing said response signals to determine the quality of the VoIP network; and

presenting an indication of the quality of the VoIP network to the user.

29.   (Original) The method of claim 28, wherein the processing comprises at least one of time-frequency mapping, frequency warping, intensity warping, loudness scaling, asymmetric masking, and cognitive modeling.

30.   (Currently amended) The method of claim 28, wherein said presenting an indication comprises indicating at least one of the following: incorrect Internet Protocol configuration, incorrect gateway address designation, signal echo, and call drop out.

31.   (Original) The method of claim 28, further comprising determining whether the VoIP network is operable to communicate voice data according to predetermined voice communication parameters.

32.   (Currently amended) The method of claim 28, further wherein said processing comprises determining signal distortion.

33.   (Currently amended) The method of claim 28, further wherein said processing comprises determining signal delay.

34. (Currently amended) The method of claim 28, ~~further~~ wherein said processing comprises determining packet jitter.

35. (Original) The method of claim 28, wherein said indication comprises a MOS indication.

36-48 Canceled.

49. (Original) A method of testing a VoIP network, comprising:
receiving an input from a user interface;
executing a test algorithm;
transmitting a first test signal over the VoIP network;
receiving a second signal from the VoIP network; and
processing said second signal.

50-55. Canceled.